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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,813	06/14/2006	Oreste Piccolo	281250US0XPCT	6561
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			CHO, JENNIFER Y	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1621	
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			NOTIFICATION DATE	DELIVERY MODE
			06/28/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
	10/562,813	PICCOLO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jennifer Y. Cho	1621				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
· <u> </u>	Responsive to communication(s) filed on <u>14 June 2006</u> .					
<i>,</i>	·					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under E	:x рапе Quayle, 1935 С.D. 11, 4:	03 U.G. 213.				
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated and accomplicate may not request that any objection to the	epted or b) ☐ objected to by the	'				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/30/2005	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

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Detailed Action

This office action is in response to Applicant's communication filed on 6/14/2006.

Claims 1-20 are pending in this application.

IDS

The information disclosure statement (IDS) filed on 12/30/2005 is acknowledged. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The Applicant has not identified or provided examples of the catalyst "precursor". The specification only briefly describes what the precursor could be, but does not provide any working examples (page 5, second to the

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last paragraph). It is suggested that the Applicant provide examples of the catalyst precursor.

Claim Rejections – 35 USC 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bissel et al. (Tetrahedron: Assymetry (1995) 6(4) 835-838).

Bissel et al. teaches the asymmetric catalytic hydrogenation of compound 1 to compound 2, using ruthenium catalysts, including Rh(NBD)(Chiraphos)ClO₄ (page 836, table 1, entry 11). The hydrogenation was carried out at 30°C, a pressure of 75-80 bars, at a molar ratio between the catalyst and substrate of 1/20 and in a methanol/methylene chloride solvent (page 836, second paragraph and footnotes of table 1).

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Bissel et al. is deficient in the sense that it does not specifically point out

Applicant's catalyst support, molar ratio, pressure or tolterodine compound. However, it
is the position of the examiner that one of ordinary skill in the art, at the time of the
invention, would through routine and normal experimentation determine the optimization
of these limitations to provide the best effective variable depending on the results
desired. Thus it would be obvious in the optimization process to optimize the catalyst
support, molar ratio, pressure and compound. The Applicant does not show any
unusual and/or unexpected results for the limitations stated. Note that the prior art
provides the same effect desired by Applicant, the enantioselective hydrogenation
tolterodine derivatives in good yield.

Therefore, it would be prima facie obvious to one of ordinary skill in the art at the time of the invention, to use the appropriate catalyst support, molar ratio, pressure and tolterodine compound. The expected result would be the enantiomeric enrichment of tolterodine derivatives in high yield.

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Claim Rejections - 35 USC 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over McGuire et al. (Tetrahedron Letters 40 (1999) 3293-3296).

McGuire et al. teaches the asymmetric catalytic hydrogenation of compound 3 to compound 4 (page 3295, compounds 8 and 9), using ruthenium catalysts, including Rh(NBD)(Chiraphos)ClO₄ (page 3294, table 1, entry 13). The hydrogenation was carried out at 40-50°C (page 3294, first paragraph, line 2), a pressure of 80 psi (5bar) (page 3294, table 1), at a molar ratio between the catalyst and substrate of 1/1000 (0.1 mol%) (page 3294, third paragraph, line 3) and in a methanol solvent (page 3294, table 1).

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McGuire et al. is deficient in the sense that it does not specifically point out

Applicant's catalyst support or lactone compound. However, it is the position of the

examiner that one of ordinary skill in the art, at the time of the invention, would through

routine and normal experimentation determine the optimization of these limitations to

provide the best effective variable depending on the results desired. Thus it would be

obvious in the optimization process to optimize the catalyst support or lactone

compound. The Applicant does not show any unusual and/or unexpected results for the

limitations stated. Note that the prior art provides the same effect desired by Applicant,

the enantioselective hydrogenation of lactone derivatives in good yield.

Therefore, it would be prima facie obvious to one of ordinary skill in the art at the time of the invention, to use the appropriate catalyst support and lactone compound.

The expected result would be the enantiomeric enrichment of lactone derivatives with high enantiomeric excess.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Y. Cho whose telephone number is (571) 272 6246. The examiner can normally be reached on 9 AM - 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on (571) 272 0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jennifer Cho **Patent Examiner** Art Unit: 1621

Supervisory Patent Examiner Technology Center 1600